| ,,,, | <br>Claims |  |
|------|------------|--|
|      |            |  |

| Application/Control No. | Applicant(s)/Patent under Reexamination |
|-------------------------|---|
| 10/622,654              | ROBERTS ET AL.                          |
| Examiner                | Art Unit                                |
| Leonard S. Liang        | 2853                                    |

| <b>~</b> | Rejected |  |
|----------|----------|--|
| II       | Allowed  |  |

| _ | (Through numeral)<br>Cancelled |
|---|--------------------------------|
| + | Restricted                     |

| N | Non-Elected  |
|---|--------------|
| ı | Interference |

| Α | Appeal   |
|---|----------|
| 0 | Objected |

| <u> </u> | ine  |                              |          |              |  | 2-6-         |  |  |          | _        |
|----------|--|------------------------------|----------|--------------|--|--------------|--|--|----------|----------|
| _Cla     | im   | Date                         |          |              |  |              |  |  |          |          |
| Final    | Original   | 5/19/05                      |          |              |  |              |  |  |          |          |
|          | 1  |                              |          |              |  |              |  |  |          |          |
|          | 2  |                              |          |              |  |              |  |  |          |          |
|          | 3  |                              |          |              |  |              |  |  |          |          |
|          | #  |                              |          |              |  |              |  |  |          |          |
|          | \$   |                              |          |              |  |              |  |  |          |          |
|          | 0 0 t to 6 t   |                              |          |              |  |              |  |  |          |          |
|          | 1 <i>i</i>   |                              |          |              |  |              |  |  |          |          |
|          | В  |                              |          |              |  |              |  |  |          |          |
|          | <u> </u>   |                              |          |              |  |              |  |  |          |          |
|          | 10   |                              |          |              | _                                      |              | _  |  |          |          |
|          | 11   |                              |          |              |  |              |  |  |          |          |
|          | 12   | L_                           |          |              |  |              |  |  | Щ        |          |
|          | 13   |                              | _        |              |  |              |  | _  |          |          |
|          | 14   |                              |          |              |  |              |  |  |          |          |
|          | 15   | _                            |          |              |  | _            | _  |  |          |          |
|          | 16   | $ldsymbol{ldsymbol{\sqcup}}$ |          |              |  | <u> </u>     |  |  | _        |          |
|          | 17   | <u> </u>                     |          | ļ            |  | <u> </u>     | L  |  | Щ        |          |
|          | 18   |                              |          |              |  | ┡            |  |  | $\vdash$ |          |
|          | 119  |                              |          |              |  | L            | <u> </u>   |  | -        |          |
|          | 20   |                              | <u> </u> | _            | <u> </u>                               | _            | _  |  | Н        | _        |
|          | 31   |                              | <u> </u> | <u> </u>     |  | _            | $\vdash$   |  | _        |          |
|          | 142  | _                            | ļ        | -            | -                                      |              | $\vdash$   | -  | ш        |          |
|          | 43   | ⊢                            |          | <del> </del> | -                                      | -            | ⊢  | H  | -        | _        |
|          | 144<br>15  | $\vdash$                     | ┝        | ├            | -                                      |              | -  | -  | -        |          |
|          | 40   | -                            | ┝        | ├            |  | -            | ⊢  |  | -        |          |
|          | 149  | -                            | $\vdash$ |              | ├                                      | -            |  | -  | Н        |          |
|          | 146  | -                            | -        | ⊢            | -                                      |              |  |  | Н        |          |
|          | 40   | <u> </u>                     | -        | $\vdash$     | ├                                      | -            | -  |  | $\vdash$ | _        |
|          | 10   |                              | ┢        | ⊢            | -                                      | -            | -  | -  | $\vdash$ | -        |
|          | 31   | ./                           |          | ⊢            | -                                      | -            | $\vdash$   | $\vdash$   |          |          |
|          | 32   | y                            |          |              | -                                      |              | -  | -  |          | $\vdash$ |
|          | 33   | Ż                            | _        | -            |  |              | <del>                                     </del> | _  |          | -        |
|          | 34   | Ⅸ                            |          | Г            | Г                                      |              | <del>                                     </del> | <del>                                     </del> | П        | _        |
|          | 35   | ľν                           | Ι-       | Г            | Г                                      | $\vdash$     | <u> </u>   | T  | $\vdash$ | _        |
|          | 3<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21<br>22<br>23<br>24<br>25<br>26<br>27<br>28<br>29<br>30<br>31<br>32<br>33<br>34<br>35<br>36<br>37<br>38<br>39<br>39<br>39<br>39<br>39<br>39<br>39<br>39<br>39<br>39 | V                            |          |              | Τ                                      | T            | $\vdash$   |  |          | $\vdash$ |
|          | 37   | V                            | Γ        |              | ļ                                      | İ            |  |  |          |          |
|          | 38   | V                            |          | L            |  |              |  |  |          |          |
|          | 39   | V                            |          |              | $L^{L}$                                |              |  |  |          |          |
|          | 40   | V                            |          |              |  |              |  |  |          |          |
|          | 41   |                              |          |              | 匚                                      |              |  |  | oxdot    | Ĺ        |
|          | 42   |                              |          | $\Box$       | Ĺ                                      |              |  |  | L        | L        |
|          | 43   | L                            |          |              | L                                      |              |  | Ĺ  |          | L        |
|          | 44   |                              | Ĺ        | _            | L                                      | <u> </u>     |  | <u> </u>   | _        | _        |
|          | 45   | oxdot                        | L        | $oxed{\Box}$ | _                                      | _            | <b> </b>   | _  | 匚        | <u>_</u> |
|          | 46   | _                            | L        | 1_           | $oldsymbol{oldsymbol{oldsymbol{eta}}}$ | $oxed{oxed}$ | <u> </u>   | 丄  | <u>L</u> | <u> </u> |
|          | 47   | L                            | L        | ــــ         | _                                      | ↓_           | _  | _  | <u> </u> | _        |
|          | 48   | <u>L</u>                     | <u> </u> | ↓_           | <b>L</b>                               | <u> </u>     | ــــ   |  | $\vdash$ | _        |
| ļ        | 49   | ــــ                         | L        | ـــــ        | $oldsymbol{oldsymbol{oldsymbol{eta}}}$ | <u> </u>     | <u> </u>   | <u> </u>   | <u> </u> | _        |
| 1        | 50   | 1                            | ſ        | 1            | 1                                      | 1            | 1  | ı  | ı        | ı        |

| Cla          | Claim    |              |          | Date     |          |          |          |          |              |            |  |  |
|--------------|----------|--------------|----------|----------|----------|----------|----------|----------|--------------|------------|--|--|
|              |          |              |          |          |          |          |          |          |              |            |  |  |
| <del> </del> | Original |              |          |          |          |          |          |          |              |            |  |  |
| Final        | įġ       | i            |          |          |          |          |          |          |              |            |  |  |
| -            | Õ        |              |          |          |          |          |          |          |              |            |  |  |
|              | 51       | Н            | -        | -        | -        |          |          |          | -            |            |  |  |
| -            |          | -            | _        | -        | -        | -        | -        |          | $\vdash$     |            |  |  |
|              | 52<br>53 | H            |          | -        | <u> </u> | -        | _        | _        | Н            |            |  |  |
|              | 53       | <u> </u>     |          | _        | _        | -        |          | -        | Н            |            |  |  |
| -            | 54       | _            |          |          | -        | -        | _        | _        | _            |            |  |  |
| -            | 55       |              |          | _        |          | <u> </u> | $\vdash$ |          | Н            |            |  |  |
| -            | 56       | _            | L_       | <u> </u> | <u> </u> | _        | L        |          |              |            |  |  |
|              | 57       | _            | _        | _        | _        | _        | _        |          |              |            |  |  |
|              | 58       | _            | <u> </u> | _        | <u> </u> | _        |          | _        | _            |            |  |  |
|              | 59       | _            |          | _        | _        | _        | <u> </u> | <u> </u> |              |            |  |  |
| ļ            | 60       | _            | _        | _        |          | _        | ļ        | <u> </u> | _            | _          |  |  |
| <b></b>      | 61       | _            |          | L        |          |          |          | <u> </u> | _            | _          |  |  |
|              | 62       |              | <u> </u> | <u> </u> | L.       |          | ļ        | _        |              | Щ.         |  |  |
|              | 63       |              | L_       | <u> </u> | _        | <u> </u> |          | <u> </u> | L            | L          |  |  |
|              | 64       | $oxed{oxed}$ |          | <u></u>  | _        |          |          |          |              | <u> </u>   |  |  |
|              | 65       |              | $\Box$   | <u>L</u> | _        | L_       | <u></u>  | <u> </u> | $oxed{oxed}$ |            |  |  |
|              | 66<br>67 |              |          |          |          |          |          |          |              | <u>L</u> . |  |  |
|              | 67       |              |          |          |          | L        |          |          |              |            |  |  |
|              | 68       |              |          |          |          |          |          |          |              |            |  |  |
|              | 69       |              |          |          |          |          | $\Box$   |          |              |            |  |  |
|              | 70       |              |          |          |          |          |          |          |              |            |  |  |
|              | 71       |              |          |          |          |          |          |          |              |            |  |  |
|              | 72<br>73 |              |          |          |          |          |          |          |              |            |  |  |
|              | 73       | П            |          |          |          |          | Г        |          | Г            |            |  |  |
|              | 74<br>75 |              |          | Π        |          |          | Г        |          |              |            |  |  |
|              | 75       |              | П        |          | Π        |          |          |          |              |            |  |  |
|              | 76       |              |          |          |          |          |          |          |              |            |  |  |
|              | 77       |              |          |          |          |          |          |          |              |            |  |  |
|              | 78       |              |          |          |          |          |          |          |              |            |  |  |
| ,            | 79       | Γ            |          |          |          |          |          |          |              |            |  |  |
|              | 80       |              |          |          |          | Π        |          |          |              |            |  |  |
|              | 81       |              | П        |          |          | [        |          |          |              |            |  |  |
|              | 82       |              |          |          |          |          |          |          |              |            |  |  |
|              | 83       |              | Γ        |          | Π        |          |          |          | Ĺ            |            |  |  |
|              | 84       | Γ            | T-       |          |          |          |          |          |              | Γ          |  |  |
|              | 85       |              |          |          |          |          | Π        |          |              |            |  |  |
|              | 86       | Т            | Г        | 1        | П        |          |          | Γ        | Г            |            |  |  |
|              | 87       | Π            | Π        | П        |          |          | 1        |          |              |            |  |  |
|              | 88       | T            |          | T        | П        | Т        | Π        |          | Γ            |            |  |  |
|              | 89       |              |          |          | Г        | Г        |          | Γ        |              |            |  |  |
|              | 90       | Т            |          | Г        | Г        |          |          |          |              | Π          |  |  |
|              | 91       | Т            | Π        | П        | T        | T        |          | Π        | Γ            | Г          |  |  |
|              | 92       |              | Г        | Г        |          | Т        |          | 1        |              | Π          |  |  |
|              | 93       | 1            |          | 1        | Τ        | 1        | Τ        | Г        | 1            | Г          |  |  |
|              | 94       | 1            | 1        | $\top$   | Т        |          | П        | Т        | Π            | Π          |  |  |
|              | 95       | 1            | Τ        | $\top$   |          |          | Π        | П        | Τ            | Π          |  |  |
|              | 96       |              |          | 1        |          | 1        | Τ        | Т        | Г            | Г          |  |  |
|              | 97       |              |          | T        |          |          | $\top$   |          | 1            |            |  |  |
|              | 98       | 1            |          | 1        |          |          | T        | П        | Т            | Г          |  |  |
| _            | 99       | t            | T        | T        | T        | T        | T        | Т        | Τ            | I          |  |  |
|              | 100      | 1            | T        | 1        | †        | T        | T        | T        | T            | T          |  |  |
| Щ.           | ,        |              | ٠        |          | ٠        | •        | _        | —        | -            |            |  |  |

| Claim  |   | Date   |          |                                     |  |  |  |            |  |  |
|--|---|--|----------|-------------------------------------|--|--|--|------------|--|--|
|  | Original  |  |          |                                     |  |  |  |            |  |  |
| Final  | ië  |  |          |                                     |  |  |  |            |  |  |
| ΙĒ   | Ğ   |  |          |                                     |  |  |  |            |  | ı  |
|  |   |  |          |                                     |  |  |  |            |  |  |
|  | 101<br>102  |  |          |                                     |  |  |  |            |  |  |
|  | 102   |  |          |                                     |  |  |  | _          |  |  |
|  | 103   |  |          |                                     |  |  |  |            |  | _  |
|  | 103<br>104<br>105<br>106  |  |          |                                     |  |  |  |            | $\Box$   | _  |
|  | 105   |  | _        |                                     |  |  | _  |            | Щ  | _  |
|  | 106   |  |          |                                     |  |  | _  | _          |  | _  |
|  | 107<br>108<br>109<br>110  |  |          |                                     |  |  |  |            |  | _  |
|  | 108   |  |          |                                     |  |  |  |            |  |  |
|  | 109   |  |          |                                     |  |  |  |            | Ш  |  |
|  | 110   |  |          |                                     |  |  | _  |            |  | _  |
|  | 111   |  | _        | _                                   |  | L  | <u> </u>   | <u> </u>   | Щ  | _  |
|  | 112   |  |          | _                                   | <u> </u>   | L_   | <u> </u>   | <u> </u>   | <u> </u>   | $\square$  |
|  | 113   |  |          |                                     | <u> </u>   | L_   | L.   | <u> </u>   | Ш  | Щ  |
|  | 111<br>112<br>113<br>114<br>115<br>116<br>117<br>118<br>119<br>120<br>121<br>122<br>123<br>124<br>125<br>126<br>127<br>128<br>129<br>130<br>131<br>132<br>133 | ļ  |          |                                     | L  | <u> </u>   | $\vdash$   | <u> </u>   | Ш  | Щ  |
|  | 115   | <u> </u>   | <u> </u> |                                     |  | <u> </u>   | <u> </u>   | _          | Ш  | Щ  |
|  | 116   | _  | _        | _                                   | L.   | <u> </u>   | <b>.</b>   | <u> </u>   | Ŀ  |  |
|  | 117   |  |          | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ | <u> </u>   | <u> </u>   | <u> </u>   | <u> </u>   | L  |  |
|  | 118   |  |          |                                     | _  |  | ļ  | <u> </u>   |  |  |
|  | 119   |  |          |                                     |  | ļ.,  |  | <u> </u>   | <u> </u>   | Щ  |
|  | 120   |  |          |                                     | L_   | <u> </u>   |  | <u> </u>   | _  | $\square$  |
|  | 121   |  | L        | <b>├</b>                            | _  | <u> </u>   | _  | _          | _  | Щ  |
|  | 122   |  |          | _                                   | ļ  | _  | L  |            | _  | $\dashv$   |
|  | 123   |  | <u> </u> | <u> </u>                            | ļ  | <u> </u>   | <u> </u>   | _          | _  | _  |
|  | 124   | -  | _        | <u> </u>                            |  | ļ  |  | <u> </u>   | _  | Н  |
|  | 125   | _  | -        | <u> </u>                            |  | _  | _  | ⊢          |  | $\vdash$   |
| <u> </u>   | 126   | <u> </u>   | -        | -                                   | -  | ├-   |  | -          | _  | $\vdash$   |
|  | 127   | <u> </u>   | -        | ├                                   | ┝  | -  | -  | -          | -  | $\vdash$   |
| ļ  | 128   | _  | ├-       | ├                                   | _  | -  | -  | -          |  | $\vdash$   |
|  | 129   | -  | -        | ⊢                                   | ⊢  | -  | <del> </del>                                     | ⊢          |  | Н  |
|  | 130   | ├  | -        | ⊢                                   | <u> </u>   | ├-   | -  | ⊬          | _  | Н  |
|  | 131   | -  |          | <b>├</b> -                          | -  | ⊢  | ⊢  | ├          | ├  | Н  |
|  | 132   |  | _        | <del> </del>                        | ⊢  | -  | ├  | <b>├</b> — | ├  | Н  |
|  | 133   | <del> </del>                                     | -        | $\vdash$                            | ⊢  | 1  |  | ┼          | ╁  | Н  |
| <u> </u>   | 134   | -  | ⊢        | ┢                                   | -  | ⊢  | -  | ⊢          | $\vdash$   | Н  |
| <del> </del>                                     | 134<br>135<br>136   | $\vdash$   | ₩        | -                                   | -  | <del> </del>                                     | $\vdash$   | $\vdash$   | -  | $\vdash$   |
| <del> </del>                                     | 137   | $\vdash$   | ├        | $\vdash$                            | $\vdash$   | $\vdash$   | ╁  | -          | -  | Н  |
|  | 138   | <del>                                     </del> | -        | +                                   | ŀ  | -  | <del>                                     </del> | ┼          | +-   | Н  |
| -  | 138<br>139  | -  | $\vdash$ | <del> </del>                        | -  | <del> </del>                                     | -  | $\vdash$   | $\vdash$   | $\vdash$   |
|  | 140   | <del> </del>                                     | $\vdash$ | 1                                   | 1  | $\vdash$   | <del> </del>                                     | $\vdash$   | $\vdash$   | Н  |
| <u> </u>   | 141   | -  | $\vdash$ | $\vdash$                            | $\vdash$   | +  | +  | H          | $\vdash$   | H  |
| <u> </u>   | 142   | +-   | ╁        | $\vdash$                            | $\vdash$   | <del>                                     </del> | 1  | $t^-$      | $\vdash$   | H  |
|  | 143   | +  | $\vdash$ | +                                   | <del>                                     </del> | $\vdash$   | $\vdash$   | t          | t  | $\vdash$   |
|  | 144   | 1-   | $\vdash$ | 1                                   | $\vdash$   | t  | $\vdash$   | T          | <del>                                     </del> | т  |
|  | 145   | +  | $\vdash$ | t                                   | 1  | t  | T  | 1          | 1  | $\vdash$   |
|  | 146   | +-   | $\vdash$ | +                                   | 1  | $f^-$  | 1  | †          | $\vdash$   |  |
|  | 147   | ✝  | $\vdash$ | $\vdash$                            | $t^-$  | t  | T  | $t^-$      | 1-   | H  |
| <del>                                     </del> | 148   | 1  | t        | t                                   | t  | $\vdash$   | 1  | $t^-$      | t  | 1  |
| $\vdash$   | 149   | +  | H        | t                                   | $\vdash$   | $\vdash$   | $t^-$  | $\vdash$   | $\vdash$   | <del>                                     </del> |
| <b></b>  | 150   | +-   | t        | †                                   | $t^{-}$  | T  | 1  | +          | 1  | <del>                                     </del> |
| Ц  | 1 100   |  | _        | 1                                   | _  | _  | ۰.   | L          |  | L  |